PUMP MODEL

TRIPLEX PLUNGER PUMP
RRP 48 TG

This eight-inch stroke pump is equipped with mono block Forged Steel fluid end, designed to handle various fluid.

Working Pressure
Upto 2,410 psig

Displacement
11375 bpd (331.63 gpm)
at 1410 psig
6652 bpd (193.93 gpm)
At 2410 psig

SPECIFICATIONS

		ENGLISH	METRIC
Pump size	(max .Plunger Dia x Stroke)	Inches 4¼ x 8	mm 108 x 203
Standard Plunger Sizes		Inches 3-1/4, 3-1/2, 3-3/4, 4 and 4-1/4	mm 83, 89, 95, 102 and 108
Rated bhp at 225 rpm		hp 300	Kw 224
Hydrostatic Test Pressure:	Discharge	psi 3615	kPa 24924
	Suction	psi 412.5	kPa 2844
Maximum Working Pressure:	Discharge	psi 2410	kPa 16616
	Suction	psi 275	kPa 1896
Two Flanged Suction Connection:	Pipe Size	Inches 6”	mm 152
	ANSI RATING	Class 150	Class 150
Two Flanged Discharge Connection:	Pipe Size	Inches 4”	mm 102
	ANSI RATING	Class 1500	Class 1500
Pinion Shaft Extension			
	Diameter	Inches 4.495	mm 114
	Length	Inches 9⅞	mm 251
	Keyway (Width x Depth)	Inches 1 x ½	mm 25 x 13
Gear Units Reduction Ratio: (Standard)		2.02:1	2.02:1
(Optional)		3.28:1	3.28:1
		4.07:1	4.07:1
		5.23:1	5.23:1
Rated Plunger Rod Load		Pounds 20000	N 88964
Oil Capacity (Crank Case).		Gallons 22	Litre 83
Gear Unit		Gallons 22	Litre 83
Weight (On wooden shipping skid)(Est.)		Pounds 8300	Kg 3765

MAINTENANCE FEATURES

- Horizontal design
- Large power end access covers and doors
- Outside access forbearing adjustment
- Separate crosshead–plunger shank construction
- Open frame cradles
- Removable stuffing boxes

PLUNGER DIA (INCH)	PLUNGER DIA (mm)	STUFFING BOX BORE (INCH)	STUFFING BOX BORE (mm)
3¼- 3½	83 - 89	4⅞	124
3¾ - 4¼	95 - 108	5¼	133

PUMP PERFORMANCE DATA

ENGLISH UNIT

Plgr.Dia (inch)	Plunger Area (Sq.inch)	Displacement (Gal.PerRev.)	Maximum Pressure (psi)	100 rpm		125 rpm		150 rpm		175 rpm		200 rpm		225 rpm	
				bpd	gpm	bpd	gpm	bpd	gpm	bpd	gpm	bpd	gpm	bpd	gpm
3¼	8.2958	0.8619	2410	2956	86.22	3695	107.77	4434	129.33	5174	150.91	5913	172.46	6652	194.02
3½	9.6211	0.9996	2080	3429	100.01	4286	125.01	5143	150.00	6000	175.00	6857	200.00	7714	224.99
3¾	11.045	1.1475	1810	3936	114.80	4920	143.50	5904	172.20	6888	200.90	7872	229.60	8856	258.30
4	12.566	1.3056	1590	4478	130.61	5598	163.28	6717	195.91	7837	228.58	8956	261.22	10076	293.88
4¼	14.186	1.4739	1410	5055	147.44	6319	184.30	7583	221.17	8847	258.04	10111	294.90	11375	331.77
Brake Horse Power Required				133		166		200		233		266		300	

METRIC UNIT

Plgr.Dia (mm)	Plunger Area (cm^2)	DisplaceMent (L / Rev.)	MaximumPressure (kPa)	100 rpm		125 rpm		150 rpm		175 rpm		200 rpm		225 rpm	
				m^3/d	L/s	m^3/d	L/s	m^3/d	L/s	m^3/d	L/s	m^3/d	L/s	m^3/d	L/s
83	53.5210	3.2626	16616	470	5.44	587	6.79	705	8.16	822	9.51	940	10.88	1057	12.23
89	62.0717	3.7839	14341	545	6.31	681	7.88	817	9.46	954	11.04	1090	12.62	1226	14.19
95	71.2557	4.3437	12480	625	7.23	782	9.05	938	10.86	1095	12.67	1251	14.48	1407	16.28
102	81.0732	4.9422	10963	712	8.24	890	10.30	1068	12.36	1245	14.41	1423	16.47	1601	18.53
108	91.5240	5.5793	9722	803	9.29	1004	11.62	1205	13.95	1406	16.27	1607	18.60	1808	20.93
Kilo-watt Input				100		126		151		176		201		224	

ENGLISH AND METRIC

Gear Unit Pinion Shaft r / min at Gear Ratios of:		2.02:1	202	252	303	353	404	454
		3.28:1	328	410	492	574	656	738
	(Std)	4.07:1	407	509	611	712	815	916
		5.23:1	523	654	785	915	1045	1177